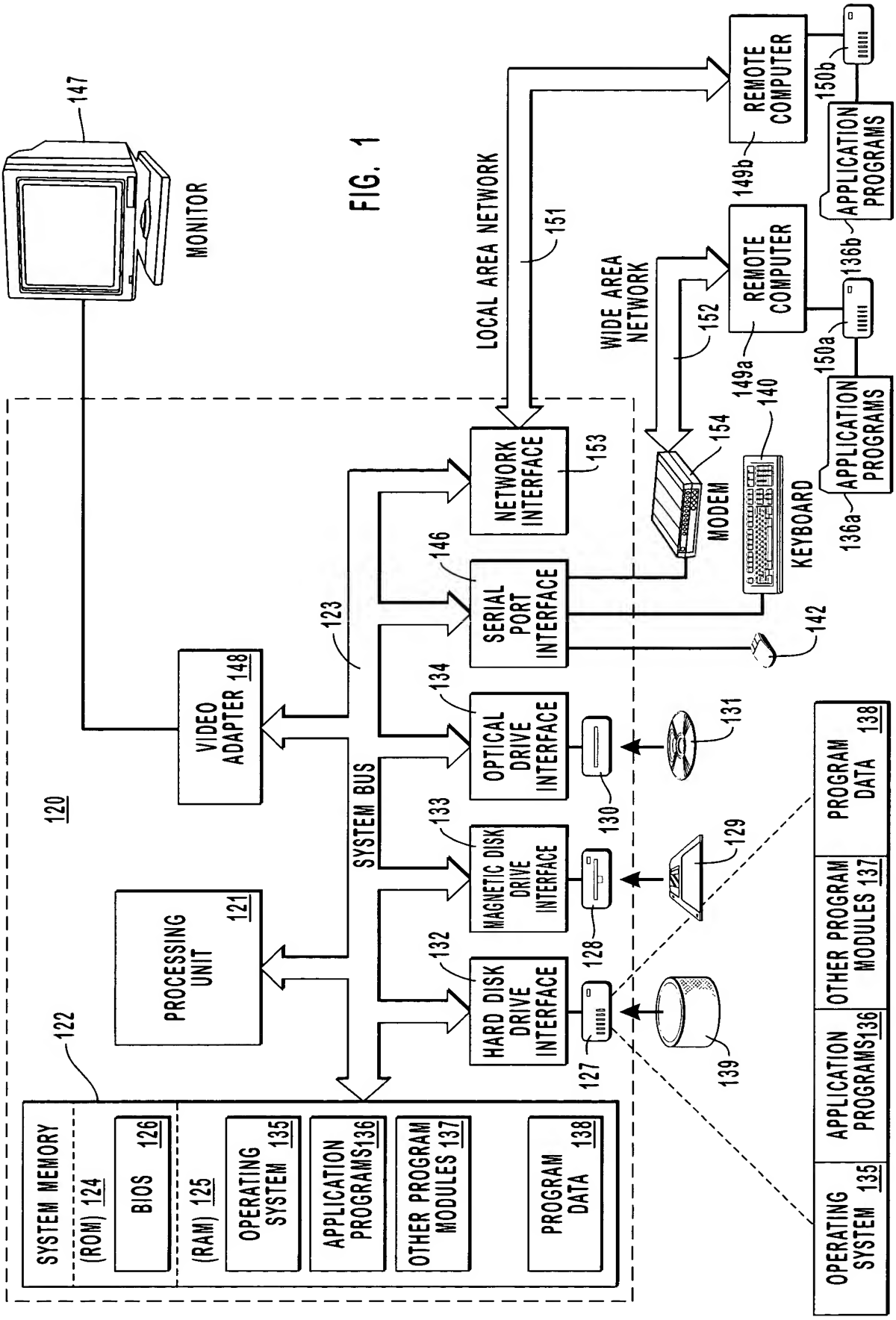
147
MONITOR
FIG. 1
LOCAL AREA NETWORK
151
WIDE AREA NETWORK
152
REMOTE COMPUTER
149b
150b
APPLICATION PROGRAMS
REMOTE COMPUTER
149a
136b
150a
APPLICATION PROGRAMS
136a
140
KEYBOARD
154
MODEM
NETWORK INTERFACE
153
146
SERIAL PORT INTERFACE
142
123
VIDEO ADAPTER 148
134
OPTICAL DRIVE INTERFACE
131
130
SYSTEM BUS
133
MAGNETIC DISK DRIVE INTERFACE
129
128
132
HARD DISK DRIVE INTERFACE
127
139
120
PROCESSING UNIT
121
122
SYSTEM MEMORY
(ROM) 124
BIOS 126
(RAM) 125
OPERATING SYSTEM 135
APPLICATION PROGRAMS136
OTHER PROGRAM MODULES 137
PROGRAM DATA 138
OPERATING SYSTEM 135
APPLICATION PROGRAMS136
OTHER PROGRAM MODULES 137
PROGRAM DATA 138

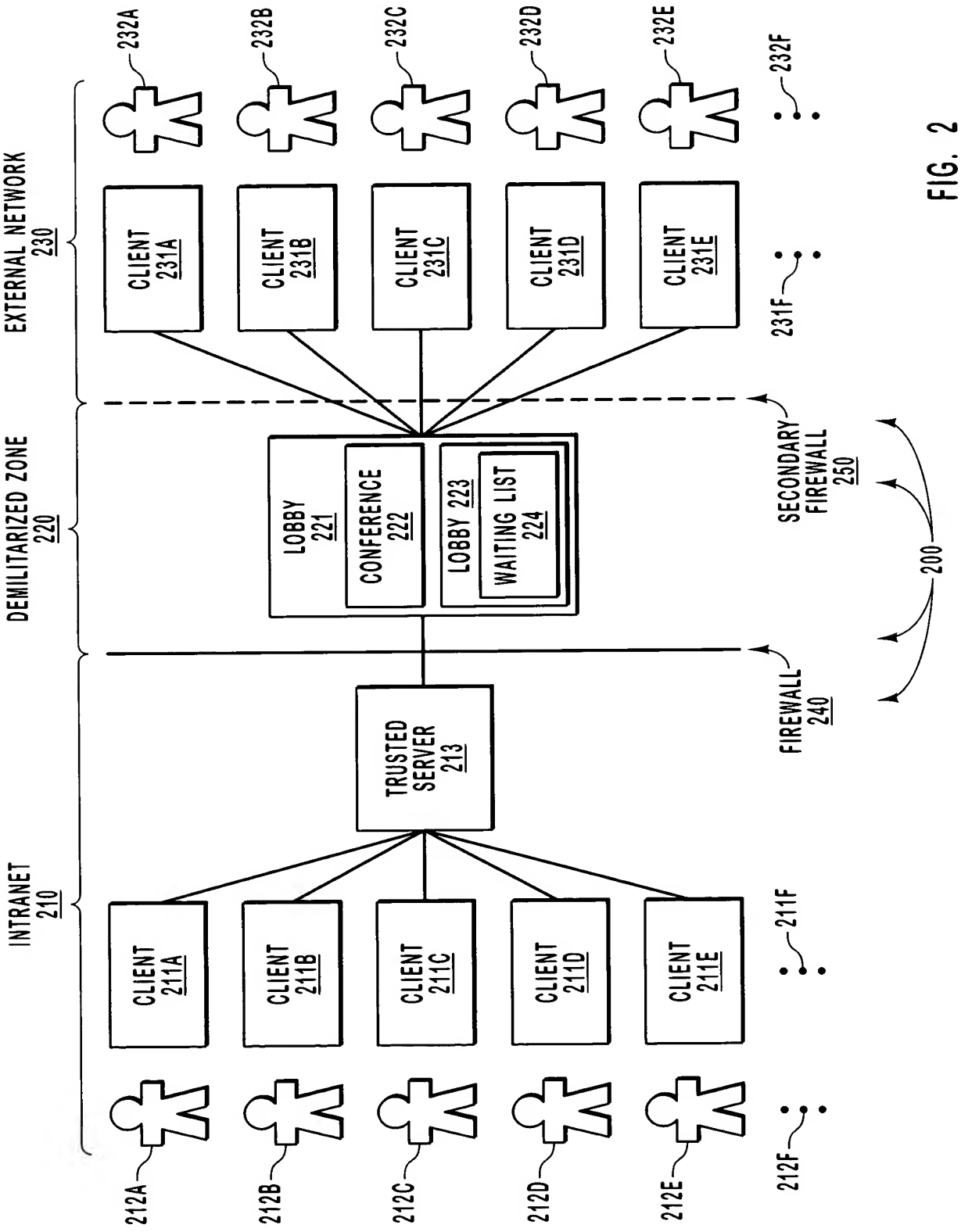
INTRANET 210
DEMILITARIZED ZONE 220
EXTERNAL NETWORK 230
CLIENT 211A
CLIENT 211B
CLIENT 211C
CLIENT 211D
CLIENT 211E
211F
212A
212B
212C
212D
212E
212F
TRUSTED SERVER 213
FIREWALL 240
LOBBY 221
CONFERENCE 222
LOBBY 223
WAITING LIST 224
SECONDARY FIREWALL 250
CLIENT 231A
CLIENT 231B
CLIENT 231C
CLIENT 231D
CLIENT 231E
231F
232A
232B
232C
232D
232E
232F
200

FIG. 2

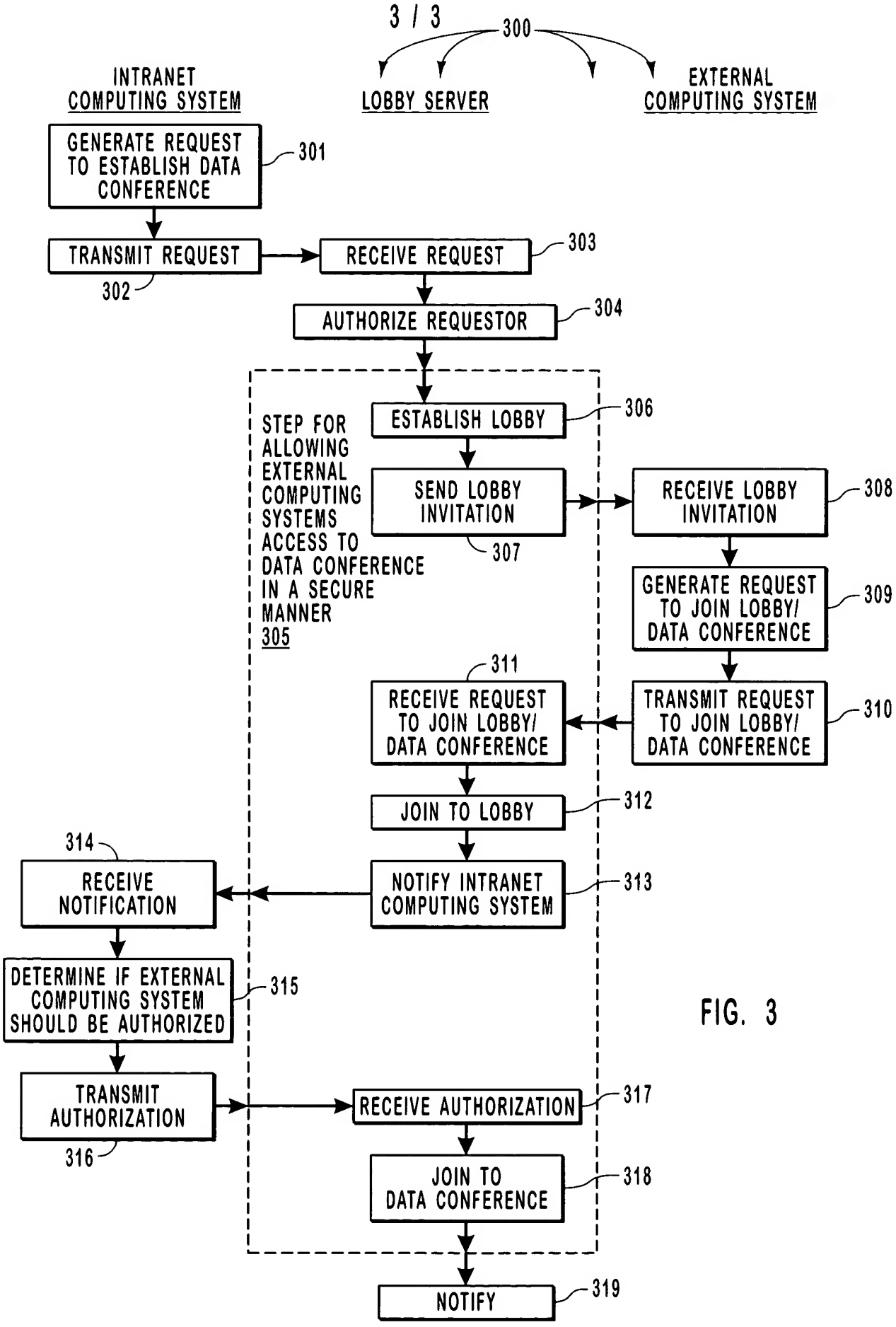
300
INTRANET COMPUTING SYSTEM
LOBBY SERVER
EXTERNAL COMPUTING SYSTEM
GENERATE REQUEST TO ESTABLISH DATA CONFERENCE
301
TRANSMIT REQUEST
302
RECEIVE REQUEST
303
AUTHORIZE REQUESTOR
304
STEP FOR ALLOWING EXTERNAL COMPUTING SYSTEMS ACCESS TO DATA CONFERENCE IN A SECURE MANNER
305
ESTABLISH LOBBY
306
SEND LOBBY INVITATION
307
RECEIVE LOBBY INVITATION
308
GENERATE REQUEST TO JOIN LOBBY/ DATA CONFERENCE
309
TRANSMIT REQUEST TO JOIN LOBBY/ DATA CONFERENCE
310
RECEIVE REQUEST TO JOIN LOBBY/ DATA CONFERENCE
311
JOIN TO LOBBY
312
NOTIFY INTRANET COMPUTING SYSTEM
313
RECEIVE NOTIFICATION
314
DETERMINE IF EXTERNAL COMPUTING SYSTEM SHOULD BE AUTHORIZED
315
TRANSMIT AUTHORIZATION
316
RECEIVE AUTHORIZATION
317
JOIN TO DATA CONFERENCE
318
NOTIFY
319

FIG. 3